MMM	000000000 000000000 000000000 000 000 000 000	NNN NNN NNN NNN NNN NNN NNN NNN NNN NN		000000000 000000000 000000000 000	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR
MMM   MMM	000 000 000000000 000000000 000000000	NNN NNN NNN NNN NNN NNN	111 111 111 111	000 000 000000000 000000000 000000000	RRR RRR RRR RRR RRR RRR

GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	88888888 88888888 88 88 88 88 88 88 88 88 888888	######################################	FFFFFFFF FF FF FF FF FF FF FF FF FF FF
	\$			

GETBUFF Table of contents

- Obtain Collection & Stat Buffers

- Obtain Collection & Stat Buffers

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(2) 55 DECLARATIONS GET\_BUFFERS - Obtain Collection & Stat Buffers

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16-SEP-1984 02:06:18 VAX/VMS Macro V04-00 5-SEP-1984 02:00:42 [MONTOR.SRC]GETBUFF.MAR;1

Page (1)

.TITLE GETBUff - Obtain Collection & Stat Buffers .IDENT 'V04-000'

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DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.

FACILITY: VAX/VMS MONITOR Utility

ABSTRACT:

Called at request initialization time to obtain Collection and Stat buffers

ENVIRONMENT: Unprivileged user mode.

AUTHOR: Henry M. Levy , CREATION DATE: 28-March-1977 Thomas L. Cafarella

MODIFIED BY:

V03-003 TLC1090 Thomas L. Cafarella 02-Aug-1984 15:00 Correct ACCVIDs in SYSTEM and PROCESSES classes.

V03-002 TLC1066 Thomas L. Cafarella 01-Apr-1984 11:00 Add SYSTEM class.

V03-001 PRS1908 Paul R. Senn 17-FEB-1984 14:00 Split out GET\_BUFFERS and associated subroutines from MONITOR.MAR into separate module.

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- Obtain Collection & Stat Buffers 16-SEP-1984 02:06:18 GET\_BUFFERS - Obtain Collection & Stat B 5-SEP-1984 02:00:42 VAX/VMS Macro V04-00 [MONTOR.SRC]GETBUFF.MAR:1

(3) Page

GET\_BUFFERS - Obtain Collection & Stat Buffers \$\$MONCODE,NOWRT,EXE 0000000 :++

## FUNCTIONAL DESCRIPTION:

## Standard classes:

This routine obtains a number of collection and statistical buffers using the LIB\$GET\_VM facility. For heterogeneous classes, the number of buffers obtained is determined by the 3 symbols COLL\_BUFS, REG\_BUFS and PC\_BUFS. The buffers are contiguous, forming a block which includes at its beginning, a set of longword pointers to the buffers which follow immediately thereafter. The buffer block always includes COLL\_BUFS collection buffers and REG\_BUFS regular stats buffers. If percent data is being maintained, PC\_BUFS percent stats buffers are also included. The buffer block is pointed to by CDR\$A\_RUFFERS. CDB\$A\_BUFFERS.

For homogeneous classes, the entire buffer block above is repeated once for each item being displayed. A set of contiguous pointers to the buffer blocks is stored immediately preceding the blocks, and is pointed to by CDB\$A BUFFERS. In addition, following the buffer blocks are the SCB (STATS Control Block) and Element ID Table.

Non-standard class (PROCESSES):

For the regular PROCESSES display, only one collection buffer, and the display buffer will be obtained.

For the TOP PROCESSES displays, one collection buffer and the 5 arrays (DATA, DIFF, ORDER, PID, ADDR) will be obtained. Space for the FAO control string will also be obtained, but will not be part of the buffer block.

#### CALLING SEQUENCE:

JSB GET\_BUFFERS

INPUTS:

None

#### IMPLICIT INPUTS:

COLL BUFS global symbol -- number of collection buffers to obtain REG\_BUFS global symbol -- number of regular stats buffers to obtain PC BUFS global symbol -- number of percent stats buffers to obtain MAXELTS global symbol -- maximum number of homogeneous elements SPTR -- pointer to SYI (System Information Area)

R6 -- pointer to CDB R7 -- pointer to MRB R11 -- pointer to MCA

OUTPUTS:

Page

#5,R1

Loop counter

MOVL

A5

FC 51

85

ADDL2

00000000 BF

GE'

TO TO

PSI

--

SSI

Phi

-

In Con Par Syl Par Syl Psi Cri As

Th 20 Th 58

GE VA

Ma S S TO

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- 1	
	MC
	nu
- 1	7 .
- 1	

Page 9 (5)

GETBUFF V04-000				E 1  Obtain Collection & Stat Buffers 16-SEP-1984 02:06:18 VAX/VMS Macro BUFFERS - Obtain Collection & Stat B 5-SEP-1984 02:00:42 [MONTOR.SRC]	V04-00 ETBUFF.MAR; 1
10 BA	58	00	FE AF 00	0191 337 MOVC5 #0,.,#0,R8,aMBP\$A_MAX(R10); Zero out MAX bu 0199 338 0199 340; Store large positive number (suitable for integer or float 0199 341; into each longword of MIN. 0199 342;	
			51 OC AA 50 14 A6	0199 343 0199 344 MOVL MBP\$A_MIN(R10),R1 ; Get addr of MIN but 019D 345 MOVL CDB\$L_ICOUNT(R6),R0 ; and number of 01A1 346 160\$:	ffer longwords
		81	00000000°8F F6 50	01A1 347 MOVL #LARGE_NO,(R1)+ ; Move in a large va 01A8 348 SOBGTR R0,160\$ ; Loop back for next 01AB 349 01AB 350	lue
		50	0000000'EF	01AB 351 GB_NRSB: ; Normal return poir	t l status
			0880 8F	01B2 353 01B2 354 GB_RSB:	

```
- Obtain Collection & Stat Buffers 16-SEP-1984 02:06:18 VAX/VMS Macro V04-00 GET_BUFFERS - Obtain Collection & Stat B 5-SEP-1984 02:00:42 [MONTOR.SRC]GETBUFF.MAR;1
GETBUFF
V04-000
                                                                        HOM_BUFFS:
                                                                           Compute number of bytes to allocate for homog class buffer block
                                                                                                CDB$W_BLKLEN(R6),R4
#MAXECTS,R4
#<MNR_CL$$K_HSIZE+MNR_HOM$K_PSIZE>,R4
#COLL_BUFS,R4,R0
                                                        0187
                             54 20 A6
                                                                                     MOVZWL
                                                                                                                                                             : .... Compute
                                                                                     MULL2
ADDL2
MULL3
                                                                                                                                                             ; .... collection
                             00000000 8F
              50
                             00000004 BF
                                                  DO
                     51
                                                                                     MOVL
                                                                                                 #<<<<PC_BUFS+REG_BUFS> * <MAXELTS+1>> + COLL_BUFS+1> * 4>,R1
                          07 45 A6 00
00000000 8F
                                                                                                #CDB$V_PERCENT,CDB$W_QFLAGS(R6),10$
#<4 * PC_BUFS * <MAXELTS + 1>>,R1
                                                                                     BBS
                                                                                     SUBL2
                                                                                                                                                             ; .... MBP
                                                                        105:
                                                                                                                                                              and
                                     32 A6
06 A3
1 58
0 51
                                                  DO
9A
C4
C0
                                                                                                 CDB$A_CDX(R6),R3
CDX$B_IDISCT(R3),R8
                                                                                     MOVL
                                                                                                                                                             .... transformation
                                                                                     MOVZBL
                                  51
                                                                                                                                                             . .... buffers
                                                                                     MULL2
                                                                                                 R1,RO
                                                  9A
C0
C4
C1
                                                                                                CDX$B ELIDLEN(R3),R1
#SCB$R SIZE,R1
#MAXELTS,R1
                                     09 A3
                                                                                     MOVZBL
                                                                                                                                                             : .... Add in Element
                                                                                                                                                             : ... ID Table and
                                                                                     ADDL2
MULL2
ADDL3
                                          03
                                                                                                                                                             .... STATS Control
.... Block size
                             00000000 '8F
                                                                                                 R1, RO, CDB&L_BUFFERS (R6)
                       2A A6
                                   50
                                                  30
E9
                                      00E9
AB 50
                                                                                                 GET_MEM
RO,GB_RSB
                                                                                                                                     ; Obtain the virtual memory ; Exit with error if failed
                                                                                     BSBW
                                                                                     BLBC
                                                                   3888901234567890123
44403
                                                                           Now store values for the buffer pointers at the beginning of
the buffer block just allocated, and in each of the MBPs (Monitor
                                                                           Buffer Pointer blocks).
                                     2E A6
B 04
B 51
F 54
                                                                                                CDB$A_BUFFERS(R6),R11
#4,R8,R1
R1,R11,CB_ADDRS
R4,CB_ADDRS,CB_ADDRS+4
R4,CB_ADDRS+4,R7
                                                                                     MOVL
                                                                                                                                     ; Store addr of 1st ptr
                                                                                     MULL3
                                                                                                                                     : Compute addr of ...
                                                                                                                                    ... 1st coll buff
... 2nd coll buff
... and 1st MBP
             00000000 EF
                                                                                     ADDL3
00000004 'EF
                     00000000 EF
00000004 EF
                                                                                     ADDL3
                         00000000 8F
07 45 A6 00
                                                                                                #REG_BUFS,R9
#CDB$V_PERCENT,CDB$W_QFLAGS(R6),20$
#PC_BUFS,R9
                                                                                                                                                            Get number of xform buffers for use in the MBP_FILL routine
                                                                                     MOVL
                                                                                     BBC
                            00000000 BF
                                                                                     ADDL2
                                                                        205:
                                          57
                                                                                                R7,(R11)+
MBP_FILL
R8,20$
                                                                                                                                     : Store away MBP ptr
: Fill the current MBP block
: Loop back to fill next MBP
                                                                   404
405
406
407
408
409
410
                                                                                     MOVL
                                                                                     BSBB
                                      F8 58
                                                                                     SOBGTR
                                                                           Now store addresses of the Element ID Table and the SCB Table.
                              50 32 A6
10 A0 57
                                                                                                 DO
DO
C1
                                                                                     MOVL
                                                                                     MOVL
                                                                                     ADDL 3
```

GETBUFF V04-000 G 1
- Obtain Collection & Stat Buffers 16-SEP-1984 02:06:18 VAX/VMS Macro V04-00 Page 11
GET\_BUFFERS - Obtain Collection & Stat B 5-SEP-1984 02:00:42 [MONTOR.SRC]GETBUFF.MAR;1 (6)

R7,CDX\$A\_ELIDTABLE(R0)

OC AO 57 0254 415 0257 416 FF51 31 0257 417

BRW GB\_NRSB

; All done -- go return

HO VO

```
GETBUFF
VO4-000
```

0000°3F

0000'8F

```
- Obtain Collection & Stat Buffers 16-SEP-1984 02:06:18 GET_BUFFERS - Obtain Collection & Stat B 5-SEP-1984 02:00:42
                                                                                                VAX/VMS Macro V04-00
[MONTOR.SRC]GETBUFF.MAR:1
                                        MBP_FILL:
                                          fill an MBP (Monitor Buffer Pointers block) with the addresses of the transformation buffers immediately following it. There
                                           is one MBP for each item being displayed.
                                           Input Registers:
                                                  R7 = current MBP addr
                                                  R9 = number of transformation buffers
                                                  MOVL
                                                           R7,R10
     00000000 EF
                                                                                          Save MBP address for MOVC5 below
                                                  MOVE
                                                           CB_ADDRS,(R7)+
                                                                                        : Store coll buff ptrs in MBP
                      C5
          59
55
                                                  MULL3
    55
                                                           #4,R9,R5
R7,R5
                04
57
                                                                                          Compute address of buffer ...
                                                                                        : ... portion of MBP
                                          Move in xform buffer ptrs for the "regular" buffers
            00 ' 8F
                                                  MOVZBL #REG_BUFS,RO
                                                                                        : Loop REG_BUFS times
                                        105:
                      DO
CO
F5
                                                           R5, (R7) +
                                                  MOVL
                                                                                          Store address of buffer into next ptr
     00000000°8F
55
                                                  ADDL2
                                                           #<4+MAXELTS>,R5
                                                                                          Calculate address of next buffer
                                                  SOBGTR
                                                           RO.108
                                          Move in xform buffer ptrs for the percent buffers if needed
                                                           #CDB$V_PERCENT. -
CDB$W_QFLAGS(R6),30$
   11 45 A6
                00
                      EI
                                                  BBC
                                                                                        ; If percent not requested, skip pc buffs
            00'8F
                                                  MOVZBL
                                                           #PC_BUFS_RO
                                                                                        : Loop PC_BUFS times
                                        20$:
                      CO
F5
                                                           R5, (R7) +
                                                  MOYL
                                                                                          Store address of buffer into next ptr
     00000000 8F
F3 50
55
                                                  ADDL2
                                                           #<4*MAXELTS>,R5
                                                                                          Calculate address of next buffer
                                    460
                                                           RO,20$
                                                  SOBGTR
                                        305:
          57
                55
                      0.0
                                                  MOVL
                                                           R5.R7
                                                                                        : Save ptr to next MBP for next call
                                          Initialize buffers which require it.
                                   469
470
471
                                                           #CDB$V_PERCENT, -
CDB$W_QFLAGS(R6),50$
   29 45 A6
                00
                      E1
                                                  BBC
                                                                                        : If percent not requested, skip oc buffs
                00
                      20
                                                  MOVC5
                                                           #0...#0.#<4*MAXELTS>, ambpsa_pcsum(R10); Zero out Pcsum buffer
                BA
                      20
                                    472
                                                  MOVC5
                                                           #0,..,#0,#<4*MAXELTS>,aMBP$A_PCMAX(R10); Zero out PCMAX buffer
             20 BA
                           OSAC
OSAC
                                   473
```

GETBUFF V04-000			GET	tain Colle BUFFERS -	otion &	Stat Buff ollection	fers 16-SEP-1984 0 8 Stat B 5-SEP-1984 0	2:06:18 VAX/VMS Macro V04-00 2:00:42 [MONTOR.SRC]GETBUFF.MAR;1	Page 13 (7)
				02AE 47 02AE 47 02AE 47 02AE 47	6 : into	e large p each lor	positive number (suitable ngword of PCMIN.	e for integer or floating)	
	50	51 1C AA 00000000 8F	D0	02AE 47 02B2 48	8 0 1 40\$:	MOVL	MBP\$A PCMIN(R10),R1 #MAXECTS,R0	Get addr of PCMIN buffer and number of longwords	
	81	00000000°8F F6 50	DO F5	02B2 48 02B9 48 02B9 48 02C0 48 02C3 48 02C3 48	3	MOVL SOBGTR	#LARGE_NO,(R1)+ R0,40\$	: Move in a large value : Loop back for next one	
0000°8F	00	FE AF 00	<b>SC</b>	02C3 48	5 50 <b>\$</b> :	MOVC5	#0,#0,#<4*MAXELTS>,a	MBP\$A_SUM(R10); Zero out SUM buffer	
0000°8F	00	FE AF 00 FE AF 00 10 BA	50	02CD 48 02D5		MOVC5	#0,.,#0,#<4*MAXELTS>,a	MBP\$A_MAX(R10); Zero out MAX buffer	
				02D7 48 02D7 49 02D7 49 02D7 49 02D7 49 02D7 49	0 ; Store 1 ; into 2 ;	e large p each lor	positive number (suitable agreed of MIN.	e for integer or floating)	
	50	51 OC AA 00000000 8F	DO	02D7 49 02DB 49 02E2 49 02E2 49	4 5 4 408.	MOVL	MBP\$A_MIN(R10),R1 #MAXECTS,R0	<pre>; Get addr of MIN buffer ; and number of longwords</pre>	
	81	00000000°8F F6 50	DO F5	02E9 49	8	MOVL SOBGTR	#LARGE_NO,(R1)+ R0,60\$	; Move in a large value ; Loop back for next one	
			05	02EC 49 02EC 50	ŏ	RSB			

```
GETBUFF
VO4-000
                                            - Obtain Collection & Stat Buffers 16-SEP-1984 02:06:18 GET_BUFFERS - Obtain Collection & Stat B 5-SEP-1984 02:00:42
                                            - Obtain Collection & Stat Buffers
                                                                                                                                   VAX/VMS Macro V04-00
[MONTOR.SRC]GETBUFF.MAR;1
                                                                                                                                                                                  14 (9)
                                                                                                                                                                          Page
                                                                  GET_MEM:
                                                                     Obtain virtual memory for required buffers.
                                                                     Push 2 addresses required by LIB$GET_VM and issue request
                                  2E A6
                                             DF
                                                                             PUSHAL
                                                                                        CDB$A_BUFFERS(R6)
                                                                                                                                       Push addr of longword to hold
                                                                                                                                       Now push addr of # of bytes needed
                                                                             PUSHAL
                                                                                        CDB$L BUFFERS(R6)
                   00000000 GF
                                                                                        #2.G^CIBSGET_VM
                                                                             CALLS
                                                                                                                                       Allocate buffers
                                                                             RSB
                                                                                                                                       Return
                                                                  CLEAR_DATA::
                                                                    Initialize the DATA array to zero.
                                                                     Input Registers:
                                                                             R6 = size of DATA array
                                                                             R9 = address of DATA array
                                                                     Registers RO-R5 and R8,R9 are destroyed.
                                                                    The only output of this subroutine is that the DATA array is cleared to zeroes.
                                                             105:
                                                                                        #32000,R8
20$
                                                                                                                                      Is a large MOVC5 required?
No -- go do a smaller one
Yes -- clear 32000 bytes
                   58
                          00007000 8F
                                                                             CMPL
                                             18
20
02
00
11
                                                                             BGEQ
                  00
58
59
69
      7000 BF
                          FE AF
00007D00
00007D00
                                                                                        #0, #0,#32000,(R9)
#32000,R8
                                                                             MOVC 5
                                                                             SUBL2
                                                                                                                                       Calc bytes left to clear
                                                                                                                                       ... and starting byte addr
Go check size of next move
                                      8F
                                                                                        #32000.R9
                                                                             BRB
                                                                  208:
                                             20
                    00
                                      00
                           FE AF
                                                                             MOVC5
                                                                                        #0,.,#0,R8,(R9)
                                                                                                                                    : Clear remainder of DATA array
                                             05
                                                                             RSB
                                                                                                                                    : Return
                                                                  GET_SYS_DATA_ARRAYS:
                                                                                       SPTR.R2
MNR SYISW_MAXPRCCT(R2),R2
#4,R2,R11
#16,R11,SYS_DATA_LEN
SYS_DATA_ADDR
                          00000000 'EF
                                             00
35
55
0F
                                                                             MOVZWL
                                                                                                                                       Get pointer to SYI
                                                                                                                                       Get max process count
                                                                                                                                       Compute size of one array
Need 16 arrays
Push addr of longword to hold
... SYSTEM DATA arrays ptr
                                                                             MULL3
MULL3
            00000000 EF
                          00000000'EF
                                                                             PUSHAL
```

PUSHAL CALLS BLBS

SYS\_DATA\_LEN #2.G^LIB\$GET\_VM R0,10\$

Now push addr of # of bytes needed

Allocate space Branch if successful

00000000

00000000 GF

GETBUFF VO4-000

		- Obta	in Collecters - 0	tion & : btain C	Stat Buffe ollection	8 Stat B 5-SEP-1984 02:06:18	VAX/VMS Macro V04-00 Page 15 [MONTOR.SRC]GETBUFF.MAR;1 (9)
53	0000000155	05 0	352 559 353 560	10\$:	RSB	AVA 500 V20 00	; Else return with error
53	00000000°EF 00000000°EF 54 10	DE 0 DO 0	352 559 353 560 353 561 354 562 361 563 364 564 364 565 367 566	208:	AAVOM LVCM	SYS_TOP_VEC.R2 SYS_DATX_ADDR,R3 #16,R4	; Get addr of vector of ptrs ; Get ptr to first array ; Number of pointers to save
	82 53 53 58 F7 54	00 0 C0 0 F5 0	364 565 367 566 36A 567 36D 568	203:	MOVL ADDL 2 SOBGTR	R3 (R2)+ R11,R3 R4,20\$	; Save ptr to first array ; Point to next one ; Loop back to save next ptr
		000	36D 569 36D 570 36D 571	Now	clear the	four DATA arrays	
5A	00000000°EF 57 04	DE O	360 573 374 574 377 575	30\$:	MOVAL	SYS_TOP_VEC,R10	; Get addr of vector of ptrs ; Number of arrays to clear
50	59 6A 58 5B FF7B 5A 10 F1 57 00000000 8F	DO 0 DO 0 30 0 CO 0 F5 0	374 574 377 575 377 576 37A 577 37D 578 380 579 383 580 386 581 38D 582 38E 583	300.	MOVL MOVL BSBW ADDL2 SOBGTR MOVL	(R10),R9 R11,R8 CLEAR DATA #16,RT0 R7,30\$ #S\$\$_NORMAL,R0	R9 must contain array addr R8 gets array length Clear the data Point to next array Loop back to process next one Load up normal status
		05 0	38D 582 38E 583 38E 584	.END	RSB		, Load up normat status

GETBUFF Symbol table	- Obtain Collection	& Stat Buffers 16-SEP- 5-SEP-	1984 02:06:18 VAX/VMS P 1984 02:00:42 [MONTOR.S	Macro V04-00 GRCJGETBUFF.MAR; 1	Page 16 (9)
ALL STAT  AVE STAT  CB ADDRS  CDB  CDBSA BUFFERS  CDBSA CHDHDR  CDBSA FAOCTR  CDBSA POSTCOLL  CDBSA PRECOLL  CDBSA PRECOLL  CDBSA SUMBUF  CDBSA FAOPRELEN  CDBSB FAOPRELEN  CDBSB ST CUR  CDBSB SUMBUF  CDBSB SUMBUF  CDBSB COB  CDBSB COB  CDBSB COB  CDBSB CDB CDBSB CDBSB CDBSB CDB  CDBSB ST LLER  CDBSB CDB  CDBSB ST LLER  CDBS	= 000000002	CDBSV-GFILLER CDBSV-STD CDBSV-STD CDBSV-SWAPBUF CDBSV-WIDE CDBSW-WIDE CDBSW-BLKLEN CDBSW-GFLAGS_CUR CDBSW-GFLAGS_CUR CDBSW-GFLAGS_DEF CDBSW-GFLAGS_DEF CDBSW-GFLAGS_DEF CDSSA-DISPNAM CDXSA-ELIDTABLE CDXSA-SCBTABLE CDXSA-SCBTABLE CDXSA-SCBTABLE CDXSB-IDISCONSEC C	= 000000000000000000000000000000000000	02 02 02 02 02 02 02 02 02 02 02 02 02 0	

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| GETBUFF | - Obtain Collection & Stat Buffers | 16-SEP-1984 | Q2:00:18 | YAX/YE | YAM/YE | Y
                  GETBUFF - Obtain Collection & Stat Buffers 16-SEP-1984 02:06:18 VAX/VMS Macro V04-00 5-SEP-1984 02:00:42 [MONTOR.SRC]GETBUFF.MAR;1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (9)
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GETBUFF Symbol table	- Obtain Collection	on & Stat Buffers 1	S-SEP-1984 02:06:18 S-SEP-1984 02:00:42	VAX/VMS M [MONTOR.S	BCTO VO4-00 RCJGETBUFF.MAR;1	Page	18
Symbol table  MNR SYIST NODENAME  MNR SYISV CLUSMEM  MNR SYISV FILLER  MNA SYISV RESERVED1  MNR SYISW MAXPRCCT  MRBSA COMMENT  MRBSA DISPLAY  MRBSA INPUT  MRBSA RECORD  MRBSA SUMMARY  MRBSA INPUT  MRBSA SIZE  MRBSL FLUSH  MRBSL SIZE  MRBSL VIEWING TIME  MRBSM DISPLAY  MRBSM D	= 000000000000000000000000000000000000	MRBSW FLAGS NORMAC PC BUFS PROCDISPS PROCESS CLASS PRO CLASS PRE QUALSA ALC QUALSA AVE QUALSA BEG QUALSA BY NODE QUALSA CLASS QUALSA CUR QUALSA CUR QUALSA CUR QUALSA FLUSH QUALSA INP QUALSA INP QUALSA INT QUALSA TOPB QUALSA TOPB QUALSA TOPC QUALSA TOPC QUALSA TOPF QUALSA TOPF QUALSA TOPF QUALSA TOPF QUALSA TOPF	= 000 =	CMONTOR.S  00043  ***** 00005 000000 000000 000064 000064 00005C 00006C 00006C 00006C 00001C 000001C 00001C 00001C 00001C 00001C 00001C 00001C 00001C 00001C 000001C 00001C 00001C 00001C 00001C 00001C 00001C 00001C 00001C 000001C 00001C 00001C 00001C 00001C 00001C 00001C 00001C 00001C 000001C 00001C 000	CIGETBUFF.MAR; 1	Page	18 (9
TRBSM SUMMARY  TRBSM SUM CL REQ  TRBSM SYSTLS  TRBSO CLASSBITS  TRBSO BEGINNING  TRBSS BEGINNING  TRBSS ENDING  TRBSS FLAGS  TRBSV BY RODE  TRBSV DISPLAY  TRBSV DISPLAY  TRBSV DISPLAY  TRBSV FILTER  TRBSV FILTER  TRBSV FILTER  TRBSV FROC REQ  TRBSV PLAYBACK  TRBSV PROC REQ  TRBSV PROC REQ  TRBSV PROC REQ  TRBSV PROC REQ  TRBSV SUMMARY  TRBSV SUMMARY  TRBSV SUMMARY  TRBSV SUMMARY  TRBSV CLASSCT	= 00000004 = 00002000 = 00000032 = 00000008 = 00000008 = 00000008 = 00000002 = 000000045 = 000000000 = 00000000000000000000000	QUALSL AVE QUALSL BY NODE QUALSL COMM QUALSL CPU QUALSL CUR QUALSL CUR QUALSL DISP QUALSL FLUSH QUALSL INP QUALSL INP QUALSL INT QUALSL INT QUALSL TEM QUALSL FEENT QUALSL FOENT QUALSL TOPB QUALSL TOPB QUALSL TOPP	= 000 = 000 = 000 = 000 = 000 = 000 = 000 = 000	00000 00070 00000 00050 00058 00048 00048 00068 00030 00008 00018 00018 00028 00010 00088 00080 00078 00088 00080 00078	02		

HQ

```
HOP
```

```
GETBUFF
                                                         - Obtain Collection & Stat Buffers
                                                                                                                               16-SEP-1984 02:06:18
5-SEP-1984 02:00:42
                                                                                                                                                                     VAX/VMS Macro V04-00
[MONTOR.SRC]GETBUFF.MAR:1
                                                                                                                                                                                                                      Page
 Symbol table
                                                                                                                                                                                                                                 (9)
REG_PROC
SCB$B_FLAGS
SCB$K_SIZE
SCB$S_FILLER
SCB$S_FLAGS
SCB$S_STAYS_BLOCK
SCB$V_ACTIVE
SCB$V_CURRENT
SCB$V_CURRENT
SCB$V_FILLER
SCB$W_DBIDX
SPTR
                                                       = 00000000
                                                         00000002
00000003
00000006
00000001
                                                       =
                                                       =
                                                       =
                                                       =
                                                          00000003
                                                       =
                                                          00000001
                                                       =
                                                       = 00000000
                                                       = 00000002
                                                       = 00000000
 SPTR
                                                           ******
 SS$ NORMAL
STATS
                                                                                    ŎŽ
                                                           ******
                                                       = 00000005
STATS
STATS BLOCK
SYS_DATA_ADDR
SYS_DATA_LEN
SYS_INFO
SYS_TOP_VEC
TOPB_PROC
TOPC_PROC
TOPD_PROC
TOPF_PROC
                                                       = 00000000
                                                          *****
                                                                                    02
                                                           *******
                                                       = 00000000
                                                                                    02
                                                           ******
                                                          00000003
                                                          00000001
                                                       =
                                                       =
                                                       = 00000004
                                                                                       Psect synopsis
 PSECT name
                                                        Allocation
                                                                                           PSECT No.
                                                                                                              Attributes
                                                        00000000
00000000
0000038E
                                                                                                                                                                 NOSHR NOEXE
NOSHR NOEXE
NOSHR EXE
                                                                                                                                                                                                 NOWRT NOVEC BYTE WAT NOVEC QUAD NOWRT NOVEC BYTE
      ABS
                                                                                                              NOPIC
                                                                                                      0.)
                                                                                                                            USR
                                                                                                                                      CON
                                                                                                                                                                                      NORD
 MONDATA
                                                                                                              NOPIC
                                                                                                                                                REL
                                                                                                                                      CON
                                                                                                                            USR
                                                                                                                                                           LCL
                                                                                                                                                                                          RD
 $$MONCODE
                                                                                                              NOPIC
                                                                                                                                      CON
                                                                                                                            USR
                                                                                                                                                                                          RD
                                                                                  Performance indicators
                                                                               +-----
 Phase
                                                                      CPU Time
                                            Page faults
                                                                                                Elapsed Time
                                                                      00:00:00.09
00:00:00.70
00:00:03.06
00:00:00.54
00:00:01.39
00:00:00.29
00:00:00.04
00:00:00.04
                                                                                                00:00:00.43
00:00:05.16
00:00:10.19
00:00:01.12
00:00:05.76
00:00:00.62
00:00:00.04
00:00:00.00
                                                         32
129
169
 Initialization
 Command processing
 Pass 1
                                                        116220
 Symbol table sort
 Pass 2
 Symbol table output
 Psect synopsis output
 Cross-reference output
```

The working set limit was 1350 pages. 20622 bytes (41 pages) of virtual memory were used to buffer the intermediate code. There were 30 pages of symbol table space allocated to hold 364 non-local and 31 local symbols. 584 source lines were read in Pass 1, producing 16 object records in Pass 2. 16 pages of virtual memory were used to define 6 macros.

Assembler run totals

20 (9) HO!

Page

GETBUFF - Obtain Collection & Stat Buffers 16-SEP-1984 02:06:18 VAX/VMS Macro V04-00 5-SEP-1984 02:00:42 [MONTOR.SRC]GETBUFF.MAR;1

! Macro library statistics !

Macro Library name Macros defined

\_\$255\$DUA28:[MONTOR.OBJ]MONLIB.MLB;1
\_\$255\$DUA28:[SYS.OBJ]LIB.MLB;1
\_\$255\$DUA28:[SYSLIB]STARLET.MLB;2
TOTALS (all libraries)

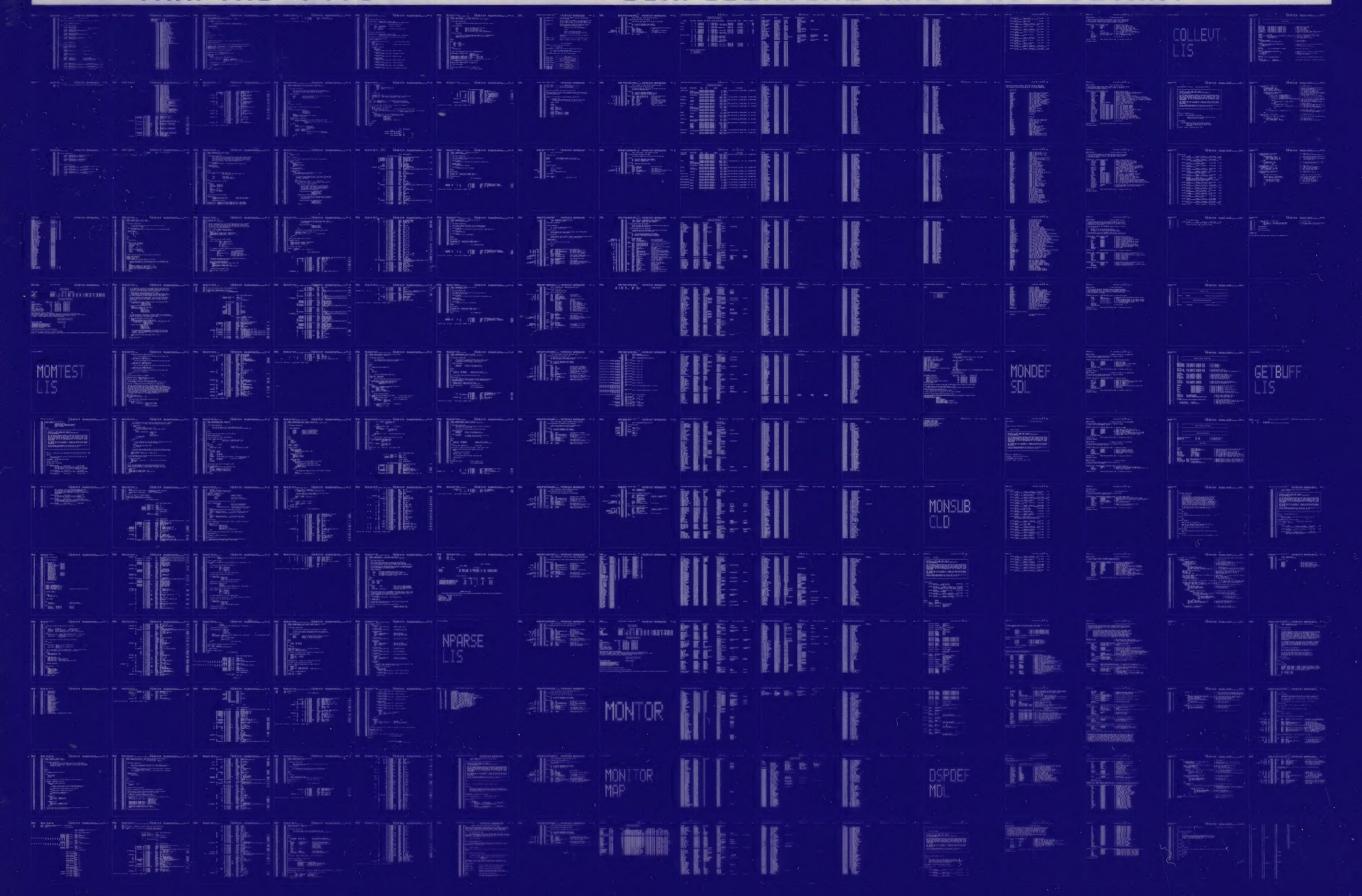
355 GETS were required to define 6 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:GETBUFF/OBJ=OBJ\$:GETBUFF MSRC\$:GETBUFF/UPDATE=(ENH\$:GETBUFF)+EXECML\$/LIB+LIB\$:MONLIB/LIB

0239 AH-BT13A-SE

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